IN THE CLAIMS

Please amend Claim 1.

1. (TWICE AMENDED) A method for applying therapeutic ultrasound to a location within a body, comprising activating a transducer to produce ultrasound at a pulse repetition period of $T \leq 1000$ milliseconds and directing this ultrasound in a non-invasive manner to a location within a body and at appropriate power, frequency and pulse duration to generative cavitation at this location;

including the steps of initiating cavitation within the body by applying a first amount of power to the transducer, initiating cavitation at the location within the body, then reducing the power supplied, while maintaining cavitation.

D1 (Please cancel Claims 18 and 38 to 41 without prejudice)

(Please add the following claims:)

-- 42. (NEW) A method of applying therapeutic ultrasound to a location within a body, comprising the steps of:

activating a transducer to produce ultrasound at a pulse repetition period of

D2 ~~T≤~~ 1000 milliseconds; and

directing the ultrasound to a location within a body,

wherein the ultrasound has power, frequency, and pulse duration appropriate to generate cavitation at the location.

-- 43. (NEW) A method of applying therapeutic ultrasound to a location within a body, which method comprises the steps of:

activating a transducer to produce ultrasound at a pulse repetition period of $T \leq 1000$ milliseconds,

directing the ultrasound to a location within a body

initiating cavitation at the location by applying a first amount of power to the transducer, and

reducing the power supplied to the transducer while maintaining cavitation.

-- 44. (NEW) A method of applying therapeutic ultrasound to a location within a body, which method comprises the steps of directing ultrasound having a pulse duration τ of less than 1 millisecond and greater than or equal to 100 microseconds and having power and frequency sufficient to generate cavitation at the location.

D2 -- 45. (NEW) A method of therapeutically treating a body which comprises the steps of directing to a location within the body ultrasound having a pulse duration τ less than 1 millisecond and greater than or equal to 100 microseconds and having power and frequency sufficient to generate cavitation.

-- 46. (NEW) A method of therapeutically treating a body which comprises the steps of:

directing to a location within the body ultrasound having a pulse duration τ of less than 1 millisecond and greater than or equal to 100 microseconds and having power and frequency sufficient to initiate cavitation at the location, and

reducing the power of the ultrasound while maintaining cavitation.

-- 47. (NEW) A method of applying therapeutic ultrasound to a location within a body, which comprises the steps of:

activating a transducer to produce ultrasound at a pulse duration τ of less than 1 millisecond and greater than or equal to 100 microseconds,

directing the ultrasound to the location within a body,

initiating cavitation by applying a first amount of power to the transducer, and

D2 reducing the power supplied while maintaining cavitation.